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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,743	02/27/2004	Stefan Bengt Edlund	ARC920030019US1	8420
7590	08/23/2006		EXAMINER	
LEONARD T. GUZMAN IBM CORPORATION, INTELLECTUAL PROPERTY LAW 650 HARRY ROAD, DEPT. C4TA/J2B San Jose, CA 95120-6099			HO, BINH VAN	
			ART UNIT	PAPER NUMBER
			2163	

DATE MAILED: 08/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/789,743	EDLUND ET AL.	
	Examiner Binh V. Ho	Art Unit 2163	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 15 November 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-27 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 27 February 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>02/27/2004</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Challenger (US 6,026,413).

(Claims 1, 16, and 22)

Challenger discloses in figures 1, 9, 12, and 30, a client-server system capable of validating cached data comprising a data store for storing data; a server for retrieving and updating data in the data store to service client requests; a transformation engine for transforming data into a format suitable for a client application based on a set of transformation rules; a cache for temporarily storing transformed data as data objects for later reuse; a cache monitor for ensuring that cached objects are validated when changes to data in the data store are detected by the server; and an object dependency mapper for automatically and continuously determining dependencies between data in the data store and sets of transformation rules (Abstract; col. 4, lines 6-10; col. 10, lines 14-24; col. 29, lines 32 +).

(Claim 2)

Challenger discloses in figure 12, an object manager for managing data objects in the cache (col. 8, lines 54 +).

(Claims 3 and 14)

Challenger discloses in figures 33, further comprising a transformation rule alert service for detecting when the transformation rules are modified, added to the system and deleted from the system (col. 29, lines 30 +).

(Claim 4)

Challenger discloses in figures 1, 12, 21 and 33, the server accesses the object manager to generate a response to a client request for data (col. 8, lines 22- +; col. 15, lines 1-44).

(Claim 5)

Challenger discloses the server accesses the cache monitor to validate cached objects when a data update request is received (col. 3, lines 63 +; col. 4, lines 1-10).

(Claims 6, 15)

Challenger discloses in figures 12 and 29, data in the data store is represented as a tree structure having a root node, a plurality of intermediate nodes and leaf nodes, the leaf nodes representing data in the data store; and a transformation rule is a expression describing a path from the root node to a particular node in the tree.

(Claims 7, 8, 18, and 24)

Challenger discloses in figures 1, 12 and 30, a set of the transformation rules constitutes a style sheet; and the transformation engine receives a style sheet and the data tree as input, and outputs a transformed data object (Abstract).

(Claim 9)

Challenger discloses in figures 1, 12 and 29, the object manager uses the transformation engine to generate a new object in response to a client request when the new object does not exist in the cache; and the object manager stores the new object in the cache automatically.

(Claim 10)

Challenger discloses in figures 19, 20, 23, and 25-29, the object manager periodically refreshes the cache and removes the objects that have been flagged as invalid by the cache monitor.

(Claim 11)

Challenger discloses in figures 9-11, the object manager optionally maintains statistical information for each object in the cache, and automatically removes cached objects that are being accessed infrequently by the clients.

(Claims 12, 13, 20, and 26)

Challenger discloses in figures 1, and 2, the object dependency mapper includes a table of dependencies, each dependency associating a transformation rule with the style sheets that include the transformation rule (col. 10, lines 36-42).

(Claims 17 and 23)

Challenger discloses in figures 1, the transformed format is html (col. 10, lines 25-35).

(Claims 19, 21, 25, and 27)

Challenger discloses in figures 1, data is represented as a tree structure having a plurality of nodes; and the cached objects that are affected by the data changes are determined using the tree structure (col. 9, lines 7-25).

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 16, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Kelley (US 6,088,659).

(Claims 1, 16, and 22)

Kelley discloses in figures 3-8, a client-server system capable of validating cached data comprising a data store for storing data; a server for retrieving and updating data in the data store to service client requests; a transformation engine for transforming data into a format suitable for a client application based on a set of transformation rules; a cache for temporarily storing transformed data as data objects for later reuse; a cache monitor for ensuring that cached objects are validated when changes to data in the data store are detected by the server; and an object dependency mapper for automatically and continuously determining dependencies between data in the data store and sets of transformation rules (col. 7, lines 52 +; col. 14, lines 26-61; col. 15, lines 26-65; col. 16, lines 60 +; col. 34, lines 30-46).

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 16 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Reed (US 2002/0128996).

(Claims 1, 16, and 22)

Reed discloses in figures 1, 3, 6, and 8, a client-server system capable of validating cached data comprising a data store for storing data; a server for retrieving and updating data in the data store to service client requests; a transformation engine for transforming data into a format suitable for a client application based on a set of transformation rules; a cache for temporarily storing transformed data as data objects for later reuse; a cache monitor for ensuring that cached objects are validated when changes to data in the data store are detected by the server; and an object dependency mapper for automatically and continuously determining dependencies between data in the data store and sets of transformation rules (Paragraph [0013], [0046], and in claims 2, 8, and 10).

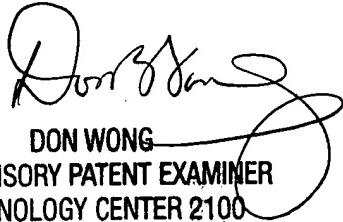
Inquiry

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh V. Ho whose telephone number is 571 272 8583. The examiner can normally be reached on M-F from 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on 571 272 1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Binh V Ho
Examiner
Art Unit 2163


DON WONG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100